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# PATENT COOPERATION TREATY

# **PCT**

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

			on of Transmittal of International examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/month/year)		Priority date (day/month/year)	
PCT/US00/24787	08 September 2000 (08.09.2000)		08 September 1999 (08.09.1999)	
International Patent Classification (IPC)		,	(00.05.1557)	
IPC(7): C12P 21/06, 9/16, 9/48 and US	Cl.: 435/69.1. 212. 196			
Applicant				
UNIVERSITY OF VICTORIA INNOVA	ATION AND DEVELOPMENT			
Examining Authority and	nary examination report has been is transmitted to the applicant and a total of Sheets, including	ccording to A	rticle 36.	
	7			
which have been ame	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).			
These annexes consist of a	total of sheets.			
3. This report contains indica	ations relating to the following i	tems:		
I Basis of the rep	ort			
II Priority				
III Non-establishm	ent of report with regard to nov	elty, inventive	e step and industrial applicability	
IV Lack of unity o	f invention	·		
V Reasoned staten	nent under Article 35(2) with retations and explanations suppor	-		
VI Certain docume	ents cited	-		
VII Certain defects	in the international application			
VIII Certain observa	tions on the international applic	ation		
Date of submission of the demand	Date	of completion	of this report	
26 March 2001 (26.03.2001)	12 De	ecember 2001 (1	12.12.2001)	
Name and mailing address of the IPEA/US  Commissioner of Patents and Trademarks Box PCT  Washington, D.C. 20231  Facsimile No. (703)305-3230  Authorized officer  Deta M. Ramirez  Telephone No. (703) 308-0196			1)	

Form PCT/IPEA/409 (cover sheet)(July 1998)

1

# INTERNATIONAL PRELIM ${}_{|}$ Y EXAMINATION REPORT

International application No.	
PCT/US	

I.	Bas	is of the report
1.	With	n regard to the elements of the international application:*
	$\boxtimes$	the international application as originally filed.
	$\boxtimes$	the description:
		pages 1-55 as originally filed
		pages NONE, filed with the demand
		pages NONE, filed with the letter of
	$\bowtie$	the claims:
		pages 56-62 as originally filed
		pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand
		pages NONE , filed with the letter of
	$\boxtimes$	the drawings:
	<u> </u>	pages 1-14 , as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
		the sequence listing part of the description:
		pages NONE, as originally filed
		pages NONE, as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of
2	Witt	h regard to the language, all the elements marked above were available or furnished to this Authority in the
٠.	lang	uage in which the international application was filed, unless otherwise indicated under this item.
	Thes	se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.	With inter	n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing
		has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go
		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
this	s repor	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in It as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). The eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

### INTERNATIONAL PRELIM

### Y EXAMINATION REPORT

International application No	
PCT/US/ 87	
101/05	

NO

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. STATEMENT		
Novelty (N)	Claims 1-8, 15-21, 24-28, 32-33	YES
·	Claims 9-14, 22-23, 29-31	NO
Inventive Step (IS)	Claims NONE	YES
. , ,	Claims 1-33	NO
Industrial Applicability (IA)	Claims 1-33	YES

Claims NONE

### 2. CITATIONS AND EXPLANATIONS

Claims 1-8 and 24-27 lack an inventive step under PCT Article 33(3) as being obvious over Gugi et al. Gugi et al. teach a method of producing recombinant acid phosphatase by culturing P. fluorescens transformed with a plasmid encoding a heterologous enzyme at 30 degrees, a temperature which inactivates the P. fluorescens phosphatase and is an optimal growth temperature for the bacterium. Gugi et al. do not teach isolating the expressed heterologous enzyme or expressing other proteins. It would have been obvious to one of ordinary skill in the art to recombinantly express proteins in P. fluorescens for the benefit of heterologously producing proteins at an optimal growth temperature. One of ordinary skill in the art would have a reasonable expectation of success at doing this as the teachings of Gugi et al. show the heterologous expression of phosphatases at 30 degrees. Therefore the invention would have been prima facia obvious to one of ordinary skill in the art at the time of the invention.

Claims 9-14, 22, 23, and 29-31 lack novelty under PCT Article 33(2) as being anticipated by lhns et al. (U.S. Patent No. 5,861,366). U.S. Patent No. 5,861,366 teaches a method for removing a protein from surfaces containing protein by treatment with proteases, denaturing the protease by heating to 60 degrees and removing the protease with detergent.

Claims 15-21 and 28-33 lack an inventive step under PCT Article 33(3) as being obvious over Rojo et al. Rojo et al. teach an RNAse that is inactivated by heating at 60 degrees. Rojo et al. do not teach a method of degrading RNA with said RNAses and inactivating by heating. It would have been obvious to one of ordinary skill in the art to remove RNA from a sample by treating with an RNAse as taught by Rojo et al. and heat inactivating the RNAse. One of ordinary skill in the art is motivated to do this as methods of removing RNA by treating with RNAse and heat inactivating the RNAse are well known in the art. Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill at the time of the invention.

International application No.	
PCT/U:	

# VII. Certain defects in the international application The following defects in the form or contents of the international application have been noted: Claims 28-33 are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: claims 28-33 do not refer to multiple claims in the alternative.

# PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION  (PCT Rule 61.2)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202
Date of mailing (day/month/year)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
13 July 2001 (13.07.01)	
International application No. PCT/US00/24787	Applicant's or agent's file reference 2847-55882
International filing date (day/month/year)	Priority date (day/month/year) 08 September 1999 (08.09.99)
08 September 2000 (08.09.00)	08 September 1333 (06.03.33)
Applicant	
NANO, Francis, E.	
1. The designated Office is hereby notified of its election made    X   in the demand filed with the International Preliminary   26 March 2001   in a notice effecting later election filed with the International Preliminary   26 March 2001	Examining Authority on: (26.03.01)  national Bureau on:
The International Bureau of WIPO	Authorized officer
34, chemin des Colombettes 1211 Geneva 20, Switzerland	H. Zhou

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35





From the

### INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PAULA A. DEGRANDIS KLARQUIST, SPARKMAN, CAMPBELL, LEIGH & WHINSTON, LLP; ONE WORLD TRADE CENTER 121 SW SALMON STREET, SUITE 1600 PORTLAND, OR 97204

# PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 71.1)

Date of Mailing

**02** JAN 2002 (day/month/year) Applicant's or agent's file reference IMPORTANT NOTIFICATION 2847-55882 Priority date (day/month/year) International application No. International filing date (day/month/year) PCT/US00/24787 08 September 2000 (08.09.2000) 08 September 1999 (08.09.1999) Applicant

### UNIVERSITY OF VICTORIA INNOVATION AND DEVELOPMENT

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

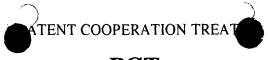
Commissioner of Patents and Trademarks Box PCT

Washington, D.C. 20231

Facsimile No. (703)305-3230

Form PCT/IPEA/416 (July 1992)

Telephone No. (703) 308-0196



# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPE)			
International application No.	International filing date (day/mo	nth/year)	Priority date (day/month/year)
PCT/US00/24787	08 September 2000 (08.09.2000	)	08 September 1999 (08.09.1999)
International Patent Classification (IPC)		<u></u>	
IPC(7): C12P 21/06, 9/16, 9/48 and US	Cl.: 435/69.1, 212, 196		
Applicant			
UNIVERSITY OF VICTORIA INNOVA	ATION AND DEVELOPMENT		
Examining Authority and	nary examination report has be is transmitted to the applicant a total of	according to A	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).			
These annexes consist of	a total of sheets.		
3. This report contains indic	ations relating to the following	items:	
1 🛛 Basis of the rep	ort		
II Priority			
III Non-establishm	ent of report with regard to no	velty, inventiv	e step and industrial applicability
IV Lack of unity of	f invention		•
, 12.3		~	ty, inventive step or industrial
	itations and explanations suppo	rting such state	ement
VI Certain docum			
	in the international application		
VIII Certain observe	ations on the international appl	ication	•
Date of submission of the demand	Dat	e of completion	n of this report
26 March 2001 (26.03.2001)	12 1	December 2001 (	12.12.2001)
Commissioner of Patents and Tradema Box PCT Washington, D.C. 20231	Washington, D.C. 20231		
Facsimile No. (703)305-3230 Form PCT/IPEA/409 (cover sheet)(July		phone No. (703	, JV0-0170 -

### INTERNATIONAL PRELI

# RY EXAMINATION REPORT

Internationa lication No.	
PCT/US00	

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
	$\boxtimes$	the international application as originally filed.
	X	the description:
	لاسكا	pages 1-55 as originally filed
		pages NONE , filed with the demand
	<del></del>	pages NONE , filed with the letter of
	$\boxtimes$	the claims:
		pages 56-62 , as originally filed
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand
		pages NONE , filed with the letter of
	$\boxtimes$	the drawings:
	_	pages 1-14 , as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of
	$\Box$	
		the sequence listing part of the description:
		pages NONE, as originally filed pages NONE, filed with the demand
		pages NONE , filed with the letter of
2.	lang	th regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the mational preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
	$\sqcap$	furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
_	$\Box$	
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
th	is rep	ncement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.





V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability
	citations and explanations supporting such statement

1. STATEN	MENT			
N	lovelty (N)	Claims	1-8, 15-21, 24-28, 32-33	YES
		Claims	9-14, 22-23, 29-31	NO
Iı	iventive Step (IS)	Claims	NONE	YES
		Claims	1-33	NO
Li	ndustrial Applicability (IA)	Claims	1-33	YES
		Claims	NONE	NO

### 2. CITATIONS AND EXPLANATIONS

Claims 1-8 and 24-27 lack an inventive step under PCT Article 33(3) as being obvious over Gugi et al. Gugi et al. teach a method of producing recombinant acid phosphatase by culturing P. fluorescens transformed with a plasmid encoding a heterologous enzyme at 30 degrees, a temperature which inactivates the P. fluorescens phosphatase and is an optimal growth temperature for the bacterium. Gugi et al. do not teach isolating the expressed heterologous enzyme or expressing other proteins. It would have been obvious to one of ordinary skill in the art to recombinantly express proteins in P. fluorescens for the benefit of heterologously producing proteins at an optimal growth temperature. One of ordinary skill in the art would have a reasonable expectation of success at doing this as the teachings of Gugi et al. show the heterologous expression of phosphatases at 30 degrees. Therefore the invention would have been prima facia obvious to one of ordinary skill in the art at the time of the invention.

Claims 9-14, 22, 23, and 29-31 lack novelty under PCT Article 33(2) as being anticipated by Ihns et al. (U.S. Patent No. 5,861,366). U.S. Patent No. 5,861,366 teaches a method for removing a protein from surfaces containing protein by treatment with proteases, denaturing the protease by heating to 60 degrees and removing the protease with detergent.

Claims 15-21 and 28-33 lack an inventive step under PCT Article 33(3) as being obvious over Rojo et al. Rojo et al. teach an RNAse that is inactivated by heating at 60 degrees. Rojo et al. do not teach a method of degrading RNA with said RNAses and inactivating by heating. It would have been obvious to one of ordinary skill in the art to remove RNA from a sample by treating with an RNAse as taught by Rojo et al. and heat inactivating the RNAse. One of ordinary skill in the art is motivated to do this as methods of removing RNA by treating with RNAse and heat inactivating the RNAse are well known in the art. Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill at the time of the invention.

### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:	

Claims 28-33 are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: claims 28-33 do not refer to multiple claims in the alternative.

PATENT COOPERATION TREE

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

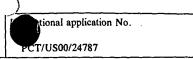
To: PAULA DEGRANDIS

**PCT** 

KLARQUIST,SPARKMAN,CAMPBELL,LEIGH & WHINSTON,LLP ONE WORLD TRADE CENTER, SUITE 1600 121 SW SALMON STREET PORTLAND, OREGON 97204		WRITTEN OPINION  (PCT Rule 66)			
		Date of Mailing (day/month/year)	<b>06</b> AUG 2001		
Applicant's or agent's file reference		REPLY DUE	vithin TWO months		
2847-55882		from the above date of mailing			
International application No.	International filing da	te (day/month/year)	Priority date (day/month/year)		
PCT/US00/24787	08 SEPTEMBER 2	2000	08 SEPTEMBER 1999		
International Patent Classification (IP IPC(7): C12P 21/06, 9/16, 9/48 and	C) or both national classic US Cl.: 485/69.1, 212	fication and IPC , 196	DOCKETED FOR 10/10/01		
Applicant UNIVERSITY OF VICTORIA IN	NOVATION & DEVELO	PMENT CORPORA			
			BOOK DRAWER		
1. This written opinion is the first	(first, etc.) o	lrawn by this Interna	itional Preliminary Examining Authority.		
2. This opinion contains indications	relating to the following	items:	ANN. SVE		
I X Basis of the opinio	n				
II Priority					
III Non-establishment of opinion with regard to novelty, inventive step or industrial applicability					
닏		<b>,</b> ,			
IV Lack of unity of invention					
	V X Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observation	ns on the international ap	plication			
3. The applicant is hereby invited to	reply to this opinion.				
	indicated above. The appl t an extension., see Rule		-expiration of that time limit, request this		
	vritten reply, accompanied the language of the amen		by amendments, according to Rule 66.3. 3.8 and 66.9.		
Also For an additional opportunity to submit amendments, see Rule 66.4.  For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.					
For an informal communication with the examiner, see Rule 66.6.  If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.					
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 08 JANUARY 2002					
		<del>/}</del>			
Name and mailing address of the IPE		Authorized officer	2 Bridges		
Commissioner of Patents and Trac Box PCT	lemarks	PETER TUNG	is 15		
Washington, D.C. 20231 Facsimile No. (703) 305-3230		Telephone No.	(703) 308-0196		
(100) 000-0200					

Form PCT/IPEA/408 (cover sheet) (July 1998)\*





I. Basis of the opinio	'n		
1. With regard to the eleme	ents of the international application	n:*	
X the international	application as originally file	ed	
the descriptions			
(X1 *	1-55		as originally filed
	NONE		, filed with the demand
pages		, filed with the letter of	
<b>—</b>			
X the claims:	56-62		
Pages		, as amended (together with any st	
• •	NONE	, as amended (together with any st	
	<del></del>	th the letter of	
puges	, mod Wi		
X the drawings:			
1 1	1-14		, as originally filed
pages	NONE		, filed with the demand
pages	NONE	, filed with the letter of	
X the sequence list	ting part of the description:		
pages			
pages	NONE	, filed with the letter of	, filed with the demand
pages	HONE	, filed with the letter of	
the international applic These elements were a	ation was filed, unless otherwise vailable or furnished to this Auth	nority in the following language	which is:
		e purposes of international search (un	nder Rule 23.1(b)).
the language of	publication of the internation	nal application (under Rule 48.3(b)).	
the language of the or 55.3).	e translation furnished for the p	ourposes of international preliminary exam	nination (under Rules 55.2 and/
3. With regard to any nuc	•	quence disclosed in the international appli	cation, the written opinion was
contained in the	international application in	printed form.	
filed together wi	ith the international applicati	on in computer readable form.	
furnished subseq	quently to this Authority in w	vritten form.	
furnished subseq	quently to this Authority in c	omputer readable form.	
	at the subsequently furnished vication as filed has been furni	written sequence listing does not go be ished.	yond the disclosure in the
The statement that been furnished.	t the information recorded in co	emputer readable form is identical to the	writen sequence listing has
4. X The amendment	s have resulted in the cancel	lation of:	
x the descrip	ption, pagesNONE		
X the claims	, Nos. NONE		
	ngs, sheets/fig NONE		
5. This opinion has l	been drawn as if (some of) the a	umendments had not been made, since the Supplemental Box (Rule 70.2(c)).	ey have been considered to go
* Replacement sheets which in this opinion as "origin		eiving Office in response to an invitation u	nder Article 14 are referred to





Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)
Continuation of: Boxes I - VIII
TIME LIMIT:  The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). As received after the expiration of the time limit set in the Written Opinion will not be considered in preparing Preliminary Examination Report.
V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):
NONE NEW CITATIONS

ITEN OPINION



	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. statem	ent				
Nov	elty (N)	Claims	1-8,15-21,24-28,32,33	YES	
		Claims	9-14, 22,23 29-31	NO	
Inv	entive Step (IS)	Claims	NONE	YES	
		Claims	1-33	NO	
1.,		Claims	1-33	YES	
ina	ustrial Applicability (IA)	Claims	NONE	NO	

### 2. citations and explanations

Claims 1-8 and 24-27 lack an inventive step under PCT Article 33(3) as being obvious over Gugi et al. Gugi et al. teach a method of producing recombinant acid phosphatase by culturing P. fluorescens transformed with a plasmid encoding a heterologous enzyme at 30 degrees, a temperature which inactivates the P. fluorescens phosphatase and is an optimal growth temperature for the bacterium. Gugi et al. do not teach isolating the expressed heterologous enzyme or expressing other proteins. It would have been obvious to one of ordinary skill in the art to recombinantly express proteins in P. fluorescens for the benefit of heterologously producing proteins at an optimal growth temperature. One of ordinary skill in the art would have a reasonable expectation of success at doing this as the teachings of Gugi et al. show the heterologous expression of phosphatases at 30 degrees. Therefore the invention would have been prima facie obvious to one of ordinary skill in the art at the time of the invention.

Claims 9-14,22,23 and 29-31 lack novelty under PCT Article 35(2) as being anticipated by Ihns et al. (U.S. Patent No. 5,861,866), U.S. Patent No. 5,861,366), U.S. Patent No. 5,861,366 are method for removing protein from surfaces containing protein by treatment with proteases, denaturing the protease by heating to 60 degrees and removing the protease with detergent.

Claims 15-21 and 28-33 lack an inventive step under PCT Article 33(3) as being obvious over Rojo et al. Rojo et al. teach an RNase that is inactivated by heating at 60 degrees. Rojo et al. do not teach a method of degrading RNA with said RNAs and inactivating by heating. It would have been obvious to one of ordinary skill in the art to remove RNA from a sample by treating with an RNAse at taught by Rojo et al. and heat inactivating the RNAse. One of ordinary skill in the art is motivated to do this as methods of removing RNA by treating with RNAse and heat inactivating the RNAse are well known in the art. Therefore the invention as a whole would have been prima facie obvious to one of ordinary skill at the time of the invention.

(Continued on Supplemental Sheet.)



M

### From the INTERNATIONAL SEARCHING AUTHORITY

To: PAULA DEGRANDIS  KLARQUIST,SPARKMAN,CAMPBELL,LEIGH & WHINSTON,LLP ONE WORLD TRADE CENTER, SUITE 1600 121 SW SALMON STREET PORTLAND, OREGON 97204	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION  (PCT Rule 44.1)  Date of Mailing (day/month/year) 26 JAN 2001			
Applicant's or agent's file reference				
2847-55882	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date (day/month/year)			
PCT/US00/24787	08 SEPTEMBER 2000			
Applicant UNIVERSITY OF VICTORIA INNOVATION & DEVELO	PMENT CORPORATION			
Filing of amendments and statement under Articl The applicant is entitled, if he so wishes, to amend	the claims of the international application (see Rule 46):			
	ents is normally 2 months from the date of transmittal of the more details, see the notes on the accompanying sheet.			
Where? Directly to the International Bureau of WIPO 54, chemin des Colombettes 1911 Geneva 90, Switzerland Facsimile No.: (41-22) 740.14.35				
For more detailed instructions, see the notes on the accompanying sheet.				
The applicant is hereby notified that no internationa Article 17(2)(a) to that effect is transmitted herewith	l search report will be established and that the declaration under h.			
3. With regard to the protest against payment of (an)	additional fee(s) under Rule 40.2, the applicant is notified that:			
	has been transmitted to the International Bureau together with of both the protest and the decision thereon to the designated			
no decision has been made yet on the protest	; the applicant will be notified as soon as a decision is made.			
4. Further action(a): The applicant is reminded of the following	llowing:			
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).				
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				
Name and mailing address of the ISA/US	Authorized officer Mine Par Anon			
Commissioner of Patents and Trademarks Box POT	PETER TUNG			
Washington, D.C. 20231	Telephone No. (70%) 80%-019%			

Form PCT/ISA/220 (July 1998)\*

(See notes on accompanying sheet)



# PCT

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2847-55882	FOR FURTHER ACTION		Transmittal of International Search Report 20) as well as, where applicable, item 5 below.				
International application No.	International filing date	te (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/US00/94787	os SEPTEMBER so	000	08 SEPTEMBER 1999				
Applicant UNIVERSITY OF VICTORIA INNO	OVATION & DEVELOP	MENT CORPORAT	NOI				
according to Article 18. A copy is bein  This international search report consis	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.						
X It is also accompanied by a c	opy of each prior art doc	ument cited in this	report.				
language in which it was filed,	, unless otherwise indicated	d under this item.	pasis of the international application in the				
b. With regard to any nucleotide was carried out on the basis of	•	nce disclosed in the in	nternational application, the international search				
contained in the internation	al application in written	form.					
filed together with the inte	rnational application in c	omputer readable for	rm.				
furnished subsequently to the	furnished subsequently to this Authority in written form.						
furnished subsequently to the	his Authority in computer	readable form.					
furnished subsequently to the statement that the subsequent that the subsequent that the subsequent that the subsequent that the information of the statement that the information of the statement that th	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in						
the statement that the information furnished.	ation recorded in computer	readable form is iden	ntical to the written sequence listing has been				
2. Certain claims were found	d unsearchable (See Box	I).					
3. Unity of invention is lacki	ing (See Box II).						
4. With regard to the title,							
X the text is approved as sub	mitted by the applicant.						
the text has been established	ed by this Authority to re	end as follows:					
5. With regard to the abstract,							
X the text is approved as sub	mitted by the applicant.						
the text has been establishe Box III. The applicant may, search report, submit comm	within one month from th						
6. The figure of the drawings to be published with the abstract is Figure No.							
as suggested by the applica	ınt.		X None of the figures.				
because the applicant failed	to suggest a figure.						
because this figure better c	haracterizes the invention	n.					

Form PCT/ISA/210 (first sheet) (July 1998)\*

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) :C12P 21/06; C12N 9/16, 9/48					
US CL	435/69.1, 212, 196				
According	to International Patent Classification (IPC) or to bot	h national classification and IPC			
	DS SEARCHED				
Minimum d	ocumentation searched (classification system followe	d by classification symbols)			
U.S. :	435/69.1, 212, 196				
Documentar searched	tion searched other than minimum documentation to	o the extent that such documents are i	ncluded in the fields		
Electronic o	lata base consulted during the international search (	name of data base and, where practicable	e, search terms used)		
	MEDLINE, CAPLUS, BIOSIS, EMBASE ms: francis nano, psychorotrophic, protease, nuclease	, temperature sensitive, heat inactivatio	n		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Y	GUGI, B. et al. Effect of Growth Tem Enzyme Activities in the Psychrotrop fluorescens. J. Bacteriol. June 1991, V 3820, see entire document.	hic Bacterium Pseudomonas	1-8, 24-27		
Y	US 5,861,366 A (IHNS et al.) 19 January 1999, col. 11, lines 6-28 9-14, 22, 23, 29-31				
Y	ROJO, M. et al. Cusativin, a new of accumulated in seeds of Cucumis sativupages 328-338, see entire document.	· - 1	15-21, 28-33		
Furtl	her documents are listed in the continuation of Box	C. See patent family annex.			
• 8p	ocial categories of cited documents:	"I" later document published after the inte			
	rement defining the general state of the art which is not considered be of particular relevance	the principle or theory underlying the			
	dier document published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider			
	current which may throw doubts on priority claim(s) or which is	when the document is taken alone			
cited to establish the publication date of another citation or other  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined					
	nument referring to an oral disclosure, use, exhibition or other	with one or more other such docum obvious to a person skilled in the art			
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed					
Date of the actual completion of the international search  Date of mailing of the international search report					
18 DECEMBER 2000 26 JAN 2001					
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 PETER TUNG Telephone No. (700) 205 205 0106					
Commissioner of Patents and Trademarks Box PCT PETER TUNG					
Washington Facsimile N	n, D.C. 20231	Telephone No. (703) 308-0196	for		



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